

GRADE 10 MATHEMATICS MARCH TEST

QUESTION 1

- 1.1 Copy and complete the following table on your answer sheet. Only tick in the applicable columns.

	N	N ₁	Z	Q	Q'	X	X'
$\sqrt{9} + 1$							
$\frac{5}{2}$							
0,75/3							
$\sqrt{5}$							

- 1.2 Determine between which integers the following irrational number lies:

$$\sqrt{17}$$

- 1.3 Use the ladder method to give the prime factors of 5104.

$$5104 = 2^4 \times 159,5$$

QUESTION 2

Factorise the following expressions:

2.1 $x^2 - 49$

2.2 $2x^2 + 5x - 3$

2.3 $6x^2 - 13x + 6$

2.4 $3x^2 + 9x - 12$

QUESTION 3

Simplify the following expressions:

3.1 $(x - 5)(3x + 2)$

3.2 $6x^2 - 12x + 6$

3.3 $\frac{3x^2 + 12x}{3x}$

QUESTION 4

Simplify the following using the exponential laws.

4.1 $\frac{1}{x^2}$

4.2 $\frac{2x^3 \cdot 3x^2}{4x^5}$

Solve for x:

4.3 $2^x - 5 = 11$

QUESTION 5

Solve for x:

5.1 $(x - 3)(x + 5) = 0$

5.2 $3x^2 + 10x + 7 = 0$

5.3 $\frac{1}{x} + \frac{1}{x+1} = \frac{1}{x+2}$

5.4 $\frac{x+2}{x} + 5 > 8$

5.5 Solve x and y simultaneously:

$$\begin{cases} x + y = 10 \\ x - y = 2 \end{cases}$$

5.6 Jane is 3 years older than her sister. Together they are 19 years old.

$$\begin{cases} J = S + 3 \\ J + S = 19 \end{cases}$$

QUESTION 6

6.1 Use the following triangle to determine the trigonometric ratios:



6.1.1

6.1.2

6.1.3

Mathematics Memorandum Grade 10 Final Exam 2014

Jiyuan Zhang



Mathematics Memorandum Grade 10 Final Exam 2014:

The Schenley Experiment Jake Oresick, 2017-04-14 The Schenley Experiment is the story of Pittsburgh's first public high school a social incubator in a largely segregated city that was highly even improbably successful throughout its 156 year existence Established in 1855 as Central High School and reorganized in 1916 Schenley High School was a model of innovative public education and an ongoing experiment in diversity Its graduates include Andy Warhol actor Bill Nunn and jazz virtuoso Earl Hines and its prestigious academic program and pensions lured such teachers as future Pulitzer Prize winner Willa Cather The subject of investment as well as destructive neglect the school reflects the history of the city of Pittsburgh and provides a study in both the best and worst of urban public education practices there and across the Rust Belt Integrated decades before Brown v Board of Education Schenley succumbed to default segregation during the white flight of the 1970s it rose again to prominence in the late 1980s when parents camped out in six day long lines to enroll their children in visionary superintendent Richard C Wallace's reinvigorated school Although the historic triangular building was a cornerstone of its North Oakland neighborhood and a showpiece for the city of Pittsburgh officials closed the school in 2008 citing over 50 million in necessary renovations a controversial event that captured national attention Schenley alumnus Jake Oresick tells this story through interviews historical documents and hundreds of first person accounts drawn from a community indelibly tied to the school A memorable important work of local and educational history his book is a case study of desegregation magnet education and the changing nature and legacies of America's oldest public schools Official Gazette Philippines, 2004 **Resources in Education**, 1988 The Gambler and the Scholars John F. Dooley, 2023-04-05 In May 1917 William and Elizebeth Friedman were asked by the U S Army to begin training officers in cryptanalysis and to decrypt intercepted German diplomatic and military communications In June 1917 Herbert Yardley convinced the new head of the Army's Military Intelligence Division to create a code and cipher section for the Army with himself as its head These two seminal events were the beginning of modern American cryptology the growth of which culminated 35 years later with the creation of the National Security Agency Each running their own cryptologic agencies in the 1920s the Friedman Yardley relationship was shattered after Yardley published a tell all book about his time in military intelligence Yet in the end the work they all started in 1917 led directly to the modern American intelligence community As they got older they became increasingly irrelevant in the burgeoning American cryptologic fraternity Topics and features Examines the lives of three remarkable and pioneering cryptologists Offers fascinating insights into spies codes and ciphers rumrunners poker and military history Sheds new light on interesting parts of the cryptologists careers especially Elizebeth Friedman whose work during World War II has just begun to be explored Recounts several good stories i.e. What if the Friedmans had gone to work for Herbert Yardley in his new Cipher Bureau in 1919 What if Yardley had moved back to Washington to work for William Friedman a decade later This enjoyable book has wide appeal for general readers interested in the evolution of American

cryptology American historians particularly of World War I the inter war period and World War II signals intelligence and historians of and general readers interested in American military intelligence It also can be used as an auxiliary text or recommended reading in introductory or survey courses in history or on the related topics *African American Doctors of World War I* W. Douglas Fisher, Joann H. Buckley, 2015-11-27 In World War I 104 African American doctors joined the United States Army to care for the 40 000 men of the 92nd and 93rd Divisions the Army's only black combat units The infantry regiments of the 93rd arrived first and were turned over to the French to fill gaps in their decimated lines The 92nd Division came later and fought alongside other American units Some of those doctors rose to prominence others died young or later succumbed to the economic and social challenges of the times Beginning with their assignment to the Medical Officers Training Camp Colored the only one in U S history this book covers the early years education and war experiences of these physicians as well as their careers in the black communities of early 20th century America Keys unlocking maths Andrea Morgan, 2016 Study & Master Mathematics Grade 10 Study Guide Paul Carter, 2007-09 By working through this Study Guide you will definitely improve your results whether you are working towards being the top performer in your class or whether you regularly break out in a sweat when you have to present your test scores or school report at home This marvellous resource provides you with Introductions to and discussions of the various themes and topics relevant to Grade 10 Mathematics Fully worked out examples with their answers Loads of exercises and questions to practise your newly gained skills Answers to these exercises at the back of the book Exemplar examination papers for you to work through and their answers This Study Master Guide is written according to the NCS for Mathematics **Mathematics and Mathematical Literacy** South Africa. Department of Education, 2007 New Approach to Mathematics F. A. Hoskin, Keith Alexander Dan, Marjorie C. Carss, 1973 Cracking the MCAS. Jeff Rubenstein, Princeton Review (Firm), 2001-03-13 The Princeton Review realizes that acing the MCAS Grade 10 Math exam is very different from getting straight As in school TPR doesn't try to teach students everything there is to know about math only what they'll need to score higher on the exam There's a big difference In Cracking the MCAS Grade 10 Math The Princeton Review will teach test takers how to think like the test makers and Raise scores by using techniques such as the two pass system Ballparking and Process of Elimination Get students familiar with the test format so they won't be surprised on the test day Score higher by knowing in advance what will be on the test Learn problem solving skills that are designed to help test takers ace the MCAS Grade 10 Math exam This book includes 2 full length simulated MCAS Grade 10 Math exams The questions are just like the ones test takers will see on the actual exam and The Princeton Review fully explains every solution Contents Include Introduction to the MCAS Exams Structure and Strategies II Subject Review Number Sense Geometry and Measurement Patterns Relations and Functions Statistics and Probability Solutions and Exercises III The Princeton Review Practice Tests

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